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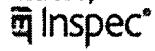
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IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

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IEEE STD IEEE Standard

 **76. Advanced mechatronic technology for turbine blades maintenance**

Brinksmeier, E.; Berger, U.; Janssen, R.;

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Barton, A.D.; Lewin, P.L.; Brown, D.J.;

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- 1 [Law-governed interaction: a coordination and control mechanism for heterogeneous distributed systems](#)



Naftaly H. Minsky, Victoria Ungureanu

July 2000 **ACM Transactions on Software Engineering and Methodology (TOSEM),**

Volume 9 Issue 3

Publisher: ACM Press

Full text available: [pdf\(792.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software technology is undergoing a transition from monolithic systems, constructed according to a single overall design, into conglomerates of semiautonomous, heterogeneous, and independently designed subsystems, constructed and managed by different organizations, with little, if any, knowledge of each other. Among the problems inherent in such conglomerates, none is more serious than the difficulty to control the activities of the disparate agents operating in it, and the ...

**Keywords:** coordination of heterogeneous agents, policy enforcement, scalability

- 2 [Implementing the model-view-controller paradigm in Ada 95](#)



November 1995 **Proceedings of the conference on TRI-Ada '95: Ada's role in global markets: solutions for a changing complex world**

Publisher: ACM Press

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- 3 [Model-view-controller and object teams: a perfect match of paradigms](#)



Matthias Veit, Stephan Herrmann

March 2003 **Proceedings of the 2nd international conference on Aspect-oriented software development**

Publisher: ACM Press

Full text available: [pdf\(1.23 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

From the early days of object-oriented programming, the model-view-controller paradigm

has been pursued for a clear design which separates different responsibilities within an interactive application. In contrast to its untyped implementation in Smalltalk, any implementation in a statically typed language involves certain trade-offs which either blur the clear structure, destroy the intended independence, or introduce undue administrative overhead. Each alternative creates a different caricature ...

**Keywords:** GUI design, a-posteriori integration, collaborations, composition, evaluation, programming language

**4 Enhancing TCP performance with a load-adaptive RED mechanism**

James Aweya, Michel Ouellette, Delfin Y. Montuno, Alan Chapman

January 2001 **International Journal of Network Management**, Volume 11 Issue 1

**Publisher:** John Wiley & Sons, Inc.

Full text available:  pdf(412.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes a technique for enhancing the effectiveness of RED by dynamically changing the threshold settings as the number of connections & and system load&rpar; changes. Using this technique, routers and switches can effectively control packet losses and TCP timeouts while maintaining high link utilization. Copyright © 2001 John Wiley & Sons, Ltd.

**5 6.2: Environmental factors: Effects of culture on control mechanisms in offshore outsourced IT projects**

Ravi Narayanaswamy, Raymond M. Henry

April 2005 **Proceedings of the 2005 ACM SIGMIS CPR conference on Computer personnel research SIGMIS CPR '05**

**Publisher:** ACM Press

Full text available:  pdf(250.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In spite of the increasing trend of offshore outsourcing in the IT industry, there has been little attention given to control strategies for managing offshore IT development. This paper offers an analysis of the relationship between national culture and control mechanisms, which is particularly important in the offshore systems development context. Control is defined as an attempt made by an organization to ensure that individuals act according to an agreed upon strategy to achieve desired objec ...

**6 Semi-dynamic scheduling of synchronization-mechanisms**

Wolfgang Ecker

December 1995 **Proceedings of the conference on European design automation**

**Publisher:** IEEE Computer Society Press

Full text available:  pdf(621.48 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**7 Efficient availability mechanisms in distributed database systems**

Bharat Bhargava, Abdelsalam Helal

December 1993 **Proceedings of the second international conference on Information and knowledge management**

**Publisher:** ACM Press

Full text available:  pdf(1.06 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

**8 Connector-based self-healing mechanism for components of a reliable system**

Michael E. Shin, Daniel Cooke

May 2005 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2005 workshop on Design and evolution of autonomic application software DEAS '05**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: [pdf\(357.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the self-healing mechanism for components in reliable systems. Each component in a self-healing system is designed as a layered architecture, structured with the healing layer and the service layer. The healing layer of a self-healing component is responsible for detection of anomalous objects in the service layer, reconfiguration of the service layer, and repair of anomalous objects detected. The service layer of a self-healing component provides functionality to other comp ...

**Keywords:** component, connector, self-healing mechanism

9 Sensor networks: LEAP: efficient security mechanisms for large-scale distributed sensor networks



Sencun Zhu, Sanjeev Setia, Sushil Jajodia

October 2003 **Proceedings of the 10th ACM conference on Computer and communications security**

Publisher: ACM Press

Full text available: [pdf\(177.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we describe LEAP (Localized Encryption and Authentication Protocol), a key management protocol for sensor networks that is designed to support in-network processing, while at the same time restricting the security impact of a node compromise to the immediate network neighborhood of the compromised node. The design of the protocol is motivated by the observation that different types of messages exchanged between sensor nodes have different security requirements, and that a single k ...

**Keywords:** in-network processing, key management, security mechanism, sensor networks

10 An architectural perspective on a memory access controller



M. Freeman

June 1987 **Proceedings of the 14th annual international symposium on Computer architecture**

Publisher: ACM Press

Full text available: [pdf\(1.08 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper a CMOS memory access controller chip is described that provides the basis for achieving high-performance 68020-based (68030-based) systems. This controller matches the speed of the memory system to that of the microprocessor by providing a virtual cache mechanism where address translations are only required when there is a cache miss. This mechanism also facilitates the construction of shared-memory multiprocessor system where the controller manages ...

11 Memory Controller Optimizations for Web Servers



Scott Rixner

December 2004 **Proceedings of the 37th annual IEEE/ACM International Symposium on Microarchitecture MICRO 37**

Publisher: IEEE Computer Society

Full text available: [pdf\(281.56 KB\)](#) Additional Information: [full citation](#), [abstract](#)

This paper analyzes memory access scheduling and virtual channels as mechanisms to reduce the latency of main memory accesses by the CPU and peripherals in web servers. Despite the address filtering effects of the CPU's cache hierarchy, there is significant locality and bank parallelism in the DRAM access stream of a web server, which includes traffic from the operating system, application, and peripherals. However, a sequential memory controller leaves much of this locality and parallelism unex ...

**12 Resource controller tasks in ADA: Their structure and semantics** 

Krithivasan Ramamritham

March 1984 **Proceedings of the 7th international conference on Software engineering**

Publisher: IEEE Press

Full text available:  pdf(778.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The focus of this paper is on the processes that control access to shared resources in concurrent systems. Processes that access a shared resource send access requests to the controller of the shared resource which in turn services requests based on such criteria as the conditions enabling the requests, the fairness specified, etc. In this paper we examine the structure of resource controllers, in particular, we show how resource controllers manifest themse ...

**Keywords:** Ada2, Concurrent systems, Shared resources, Synchronization, Temporal Semantics, Verification

**13 A predictive self-tuning fuzzy-logic feedback rate controller** 

Rose Qingyang Hu, David W. Petr

December 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 6

Publisher: IEEE Press

Full text available:  pdf(281.19 KB) Additional Information: [full citation](#), [references](#)

**Keywords:** adaptive control, asynchronous transfer mode, computer network performance, feedback systems, fuzzy control, predictive control, traffic control

**14 An event-driven model-view-controller framework for Smalltalk** 

 Y.-P. Shan

September 1989 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPSLA '89,**  
Volume 24 Issue 10

Publisher: ACM Press

Full text available:  pdf(596.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Smalltalk Model-View-Controller (MVC) user interface paradigm uses polling for its input control. The polling loops consume CPU cycles even when the user is not interacting with the interface. Applications using Smalltalk as their front-end often suffer unnecessary performance loss. This paper presents a prototype event-driven MVC framework to solve these problems. A solution to the compatibility problem is also provided to allow interface objects built under both polling and event-driv ...

**15 Service differentiation using a multi-level RED mechanism** 

James Aweya, Michel Ouellette, Delfin Y. Montuno

March 2002 **International Journal of Network Management**, Volume 12 Issue 2

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(359.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes a multi-level active queue management scheme that combines packet classification and random early detection (RED) capabilities to provide differentiated performance characteristics for different classes of service. The proposed RED scheme uses a simple control-theoretic algorithm to randomly discard packets with a load-dependent probability when a buffer in a router gets congested.

**16 Telecommunications: Fluid model for window-based congestion control mechanism** 

Richard J. La

December 2001 **Proceedings of the 33nd conference on Winter simulation**

Publisher: IEEE Computer Society

Full text available:  pdf(553.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We study the stability of two queueing delay-based congestion control algorithms, the  $(p, 1)$ -proportionally fair algorithm and the global optimization algorithm. We linearize the systems around the intended operating point and show that these algorithms are stable within a range of feedback delay. Based on these linearized systems we study the impact of various (cascade) compensators on the system. We show that the PID control improves the transient behavior of the system. We simulate bot ...

**17 Reusable motion synthesis using state-space controllers** 



Michiel van de Panne, Eugene Fiume, Zvonko Vranešić

September 1990 **ACM SIGGRAPH Computer Graphics , Proceedings of the 17th annual conference on Computer graphics and interactive techniques SIGGRAPH '90**, Volume 24 Issue 4

Publisher: ACM Press

Full text available:  pdf(2.66 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The use of physically-based techniques for computer animation can result in realistic object motion. The price paid for physically-based motion synthesis lies in increased computation and information requirements.<sup>1</sup> We introduce a new approach to realistic motion specification based on state-space controllers. A user specifies a motion by defining a goal in terms of a set of destination states. A state-space controller is then constructed, which provides an optimal-control solution tha ...

**18 A control-theoretic approach to the design of an explicit rate controller for ABR service** 

Aleksandar Kolarov, G. Ramamurthy

October 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 5

Publisher: IEEE Press

Full text available:  pdf(308.28 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** ABR service, ATM networks, feedback control, flow control

**19 A genetic algorithm for learning fuzzy controllers** 



Cezary Z. Janikow

April 1994 **Proceedings of the 1994 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available:  pdf(674.97 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** fuzzy control, genetic algorithms, rule-based learning

20 Evaluation of the lock mechanism in a snooping cache 

 Toshiaki Tarui, Takayuki Nakagawa, Noriyasu Ido, Machiko Asaie, Mamoru Sugie

August 1992 **Proceedings of the 6th international conference on Supercomputing**

**Publisher:** ACM Press

Full text available:  [pdf\(1.11 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper discusses the design concepts of a lock mechanism for a Parallel Inference Machine (the PIM/c prototype) and investigates the performance of the mechanism in detail. Lock operations are extremely frequent on the PIM; however, lock contention rarely occurs during normal memory usage. For this reason, the lock mechanism is designed so as to minimize the lock overhead time in the case of no contention. This is done by using an invalidation lock mechanism, which utilizes t ...

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**1 An analytic behavior model for disk drives with readahead caches and request**


Elizabeth Shriver, Arif Merchant, John Wilkes

 June 1998 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1998 ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems SIGMETRICS '98/PERFORMANCE '98,**  
 Volume 26 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(1.44 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Modern disk drives read-ahead data and reorder incoming requests in a workload-dependent fashion. This improves their performance, but makes simple analytical models of them inadequate for performance prediction, capacity planning, workload balancing, and so on. To address this problem we have developed a new analytic model for disk drives that do readahead and request reordering. We did so by developing performance models of the disk drive components (queues, caches, and the disk mechanism) and ...

**2 Model-view-controller and object teams: a perfect match of paradigms**


Matthias Veit, Stephan Herrmann

 March 2003 **Proceedings of the 2nd international conference on Aspect-oriented software development**

Publisher: ACM Press

 Full text available: [pdf\(1.23 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

From the early days of object-oriented programming, the model-view-controller paradigm has been pursued for a clear design which separates different responsibilities within an interactive application. In contrast to its untyped implementation in Smalltalk, any implementation in a statically typed language involves certain trade-offs which either blur the clear structure, destroy the intended independence, or introduce undue administrative overhead. Each alternative creates a different caricature ...

**Keywords:** GUI design, a-posteriori integration, collaborations, composition, evaluation, programming language

**3 The local disk controller**


 Gilbert E. Houtekamer  
August 1985 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1985 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '85**, Volume 13 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.02 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The performance of the I/O subsystem in the 370-XA architecture has been improved considerably with the introduction of the new channel subsystem, as compared to the System/370 architecture. The emphasis in the 370-XA architecture is on reducing the CPU load associated with I/O, and on reducing the congestion in multi-CPU, shared systems, by redesigning the channel system. In this paper we will show that a reallocation of the control unit logic may triple the channel subsystem's ...

**4 Seeing, hearing, and touching: putting it all together**

 Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink  
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available:  pdf(20.64 MB)

Additional Information: [full citation](#)



**5 A framework for modeling human-like driving behaviors for autonomous vehicles in driving simulators**

 Talal Al-Shihabi, Ronald R. Mourant  
May 2001 **Proceedings of the fifth international conference on Autonomous agents**

Publisher: ACM Press

Full text available:  pdf(158.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



A framework for modeling driver behavior within driving simulators is described in this paper. This framework serves as a basis for building human- like driving behavior models for autonomous vehicles operating within the virtual environment of a driving simulator. The framework consists of four units, the Perception Unit, the Emotions Unit, the Decision-making Unit (DMU), and the Decision- implementation Unit (DIU). The Perception Unit defines how the model perceives its environment in lo ...

**6 Shopping models: a flexible architecture for information commerce**

 Steven P. Ketchpel, Hector Garcia-Molina, Andreas Paepcke  
July 1997 **Proceedings of the second ACM international conference on Digital libraries**

Publisher: ACM Press

Full text available:  pdf(1.49 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



**7 IIRON file systems**

 Vijayan Prabhakaran, Lakshmi N. Bairavasundaram, Nitin Agrawal, Haryadi S. Gunawi, Andrea C. Arpacı-Dusseau, Remzi H. Arpacı-Dusseau  
October 2005 **ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05**, Volume 39 Issue 5

Publisher: ACM Press

Full text available:  pdf(323.82 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Commodity file systems trust disks to either work or fail completely, yet modern disks exhibit more complex failure modes. We suggest a new *fail-partial failure model* for disks,

which incorporates realistic localized faults such as latent sector errors and block corruption. We then develop and apply a novel *failure-policy fingerprinting* framework, to investigate how commodity file systems react to a range of more realistic disk failures. We classify their failure policies in a new ...

**Keywords:** IRON file systems, block corruption, disks, fail-partial failure model, fault tolerance, internal, latent sector errors, redundancy, reliability, storage

8 [Law-governed interaction: a coordination and control mechanism for heterogeneous distributed systems](#) 

Naftaly H. Minsky, Victoria Ungureanu

July 2000 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 9 Issue 3

**Publisher:** ACM Press

Full text available:  pdf(792.05 KB)

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Software technology is undergoing a transition from monolithic systems, constructed according to a single overall design, into conglomerates of semiautonomous, heterogeneous, and independently designed subsystems, constructed and managed by different organizations, with little, if any, knowledge of each other. Among the problems inherent in such conglomerates, none is more serious than the difficulty to control the activities of the disparate agents operating in it, and the ...

**Keywords:** coordination of heterogeneous agents, policy enforcement, scalability

9 [DRPM: dynamic speed control for power management in server class disks](#) 

Sudhanva Gurumurthi, Anand Sivasubramaniam, Mahmut Kandemir, Hubertus Franke

May 2003 **ACM SIGARCH Computer Architecture News , Proceedings of the 30th annual international symposium on Computer architecture ISCA '03**, Volume 31 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(292.52 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A large portion of the power budget in server environments goes into the I/O subsystem - the disk array in particular. Traditional approaches to disk power management involve completely stopping the disk rotation, which can take a considerable amount of time, making them less useful in cases where idle times between disk requests may not be long enough to outweigh the overheads. This paper presents a new approach called DRPM to modulate disk speed (RPM) dynamically, and gives a practical impleme ...

**Keywords:** power management, server disks

10 [Disk cache—miss ratio analysis and design considerations](#) 

Alan J. Smith

August 1985 **ACM Transactions on Computer Systems (TOCS)**, Volume 3 Issue 3

**Publisher:** ACM Press

Full text available:  pdf(3.13 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The current trend of computer system technology is toward CPUs with rapidly increasing processing power and toward disk drives of rapidly increasing density, but with disk performance increasing very slowly if at all. The implication of these trends is that at some point the processing power of computer systems will be limited by the throughput of the input/output (I/O) system. A solution to this problem, which is described and evaluated in

this paper, is disk cache

**11 Rate-based versus queue-based models of congestion control**

 Supratim Deb, R. Srikant

June 2004 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the joint international conference on Measurement and modeling of computer systems SIGMETRICS 2004/PERFORMANCE 2004**, Volume 32 Issue 1

Publisher: ACM Press

Full text available:  pdf(244.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mathematical models of congestion control capture the congestion indication mechanism at the router in two different ways: rate-based models, where the queue-length at the router does not explicitly appear in the model, and queue-based models, where the queue length at the router is explicitly a part of the model. Even though most congestion indication mechanisms use the queue length to compute the packet marking or dropping probability to indicate congestion, we argue that, depending upon the c ...

**Keywords:** AQM parameters, congestion control, virtual queue

**12 Modeling and optimizing I/O throughput of multiple disks on a bus**

 Rakesh Barve, Elizabeth Shriver, Phillip B. Gibbons, Bruce K. Hillyer, Yossi Matias, Jeffrey Scott Vitter

May 1999 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1999 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '99**, Volume 27 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.39 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**13 RAID: high-performance, reliable secondary storage**

 Peter M. Chen, Edward K. Lee, Garth A. Gibson, Randy H. Katz, David A. Patterson  
June 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 2

Publisher: ACM Press

Full text available:  pdf(3.60 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Disk arrays were proposed in the 1980s as a way to use parallelism between multiple disks to improve aggregate I/O performance. Today they appear in the product lines of most major computer manufacturers. This article gives a comprehensive overview of disk arrays and provides a framework in which to organize current and future work. First, the article introduces disk technology and reviews the driving forces that have popularized disk arrays: performance and reliability. It discusses the tw ...

**Keywords:** RAID, disk array, parallel I/O, redundancy, storage, striping

**14 Facial modeling and animation**

 Jörg Haber, Demetri Terzopoulos

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available:  pdf(18.15 MB) Additional Information: [full citation](#), [abstract](#)

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications.

As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

- 15 [Disk Drive Roadmap from the Thermal Perspective: A Case for Dynamic Thermal Management](#)

 Sudhanva Gurumurthi, Anand Sivasubramaniam, Vivek K. Natarajan  
May 2005 **ACM SIGARCH Computer Architecture News , Proceedings of the 32nd Annual International Symposium on Computer Architecture ISCA '05,**  
Volume 33 Issue 2

Publisher: IEEE Computer Society, ACM Press

Full text available:  pdf(243.57 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The importance of pushing the performance envelope of disk drives continues to grow, not just in the server market but also in numerous consumer electronics products. One of the most fundamental factors impacting disk drive design is the heat dissipation and its effect on drive reliability, since high temperatures can cause off-track errors, or even head crashes. Until now, drive manufacturers have continued to meet the 40% annual growth target of the internal data rates (IDR) by increasing RPMs ...

- 16 [A control-theoretic approach to the design of an explicit rate controller for ABR service](#)

 Aleksandar Kolarov, G. Ramamurthy  
October 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 5

Publisher: IEEE Press

Full text available:  pdf(308.28 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** ABR service, ATM networks, feedback control, flow control

- 17 [A component-based approach to modeling and simulating mixed-signal and hybrid systems](#)

 Jie Liu, Edward A. Lee  
October 2002 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**,  
Volume 12 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.07 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Systems with both continuous and discrete behaviors can be modeled using a mixed-signal style or a hybrid systems style. This article presents a component-based modeling and simulation framework that supports both modeling styles. The component framework, based on an actor metamodel, takes a hierarchical approach to manage heterogeneity in modeling complex systems. We describe how ordinary differential equations, discrete event systems, and finite-state machines can be built under this metamodel ...

**Keywords:** Component-based modeling, Ptolemy II, actors-oriented design, hierarchical heterogeneity, hybrid systems, mixed-signal systems, simulation

- 18 [A five level hierarchy for the management of simulation models \(tutorial session\)](#)

François E. Cellier, Qingsu Wang, Bernard P. Zeigler  
December 1990 **Proceedings of the 22nd conference on Winter simulation**

Publisher: IEEE Press

Full text available:  pdf(1.21 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 [Fast detection of communication patterns in distributed executions](#) 

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

20 [Managing real-time services in multimedia networks using dynamic visualization and](#) 

 [high-level controls](#)

Mun Choon Chan, Giovanni Pacifici, Rolf Stadler

January 1995 **Proceedings of the third ACM international conference on Multimedia**

Publisher: ACM Press

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PUBLICATION-DATE: May 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Dolansky, Stefan</u>	Altdorf		DE

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PUBLICATION-DATE: April 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
<u>Dolansky, Stefan</u>	Altdorf		DE
Menzel, Thomas	Erlangen		DE
Papiernik, Wolfgang	Neunkirchen		DE

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PUBLICATION-DATE: April 28, 2005

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY
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DOCUMENT-IDENTIFIER: US 20050090929 A1

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PUBLICATION-DATE: April 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dolansky, Stefan	Altdorf	DE	
Menzel, Thomas	Erlangen	DE	
Papiernik, Wolfgang	Neunkirchen	DE	

US-CL-CURRENT: 700/169; 700/29

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File: USPT

Dec 11, 1990

US-PAT-NO: 4977529

DOCUMENT-IDENTIFIER: US 4977529 A

TITLE: Training simulator for a nuclear power plant

DATE-ISSUED: December 11, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gregg; Gerald L.	Monroeville	PA		
Putman; Richard E.	Pittsburgh	PA		
Gomola; John W.	Pittsburgh	PA		

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DOCUMENT-IDENTIFIER: US 20050090929 A1

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PUBLICATION-DATE: April 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dolansky, Stefan	Altdorf	DE	
Menzel, Thomas	Erlangen	DE	
Papiernik, Wolfgang	Neunkirchen	DE	

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Gomola; John W.	Pittsburgh	PA		

US-CL-CURRENT: 703/18; 376/245, 376/463, 703/3

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	KWIC	Drawn De
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 3. Document ID: US 3896041 A

L5: Entry 3 of 3

File: USPT

Jul 22, 1975

US-PAT-NO: 3896041

DOCUMENT-IDENTIFIER: US 3896041 A

TITLE: Method and system of simulating nuclear power plant count rate for training purposes

DATE-ISSUED: July 22, 1975

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Alliston; William H.	Murrysville	PA		
Koenig; Rainer H.	Murrysville	PA		

US-CL-CURRENT: 703/18; 376/217, 434/218, 703/3

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	KWIC	Drawn De
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Term	Documents
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DRIVES	459354
CONTROLLER?	0
CONTROLLERA	9
CONTROLLERB	1
CONTROLLERC	1
CONTROLLERD	4
CONTROLLERE	5
CONTROLLERG	3
CONTROLLERI	1
CONTROLLERJ	1
(L2 AND CONTROLLER? AND DRIVE ).PGPB,USPT.	3

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1. Document ID: US 20050090929 A1

Using default format because multiple data bases are involved.

L7: Entry 1 of 6

File: PGPB

Apr 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050090929

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050090929 A1

TITLE: Apparatus and method for simulation of the control and machine behavior of machine tools and production-line machines

PUBLICATION-DATE: April 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dolansky, Stefan	Altdorf	DE	
Menzel, Thomas	Erlangen	DE	
Papiernik, Wolfgang	Neunkirchen	DE	

US-CL-CURRENT: 700/169; 700/29

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KINIC	Drawn De
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2. Document ID: US 20040267395 A1

L7: Entry 2 of 6

File: PGPB

Dec 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040267395

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040267395 A1

TITLE: System and method for dynamic multi-objective optimization of machine selection, integration and utilization

PUBLICATION-DATE: December 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Discenzo, Frederick M.	Brecksville	OH	US
Pai, Ramdas M.	Racine	WI	US
Schaller, Gerald Peter	Madison	OH	US

Roote, Michael Scott	Chesterland	OH	US
Novak, Richard James	Avon	OH	US
Jensen, David Lee	Barneveld	WI	US
Ference, John Crandall	Cuyahoga Falls	OH	US
Williams, Bennet Ray	Twinsburg	OH	US

US-CL-CURRENT: 700/99; 700/108, 700/111, 702/182, 705/8

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#)

3. Document ID: US 20030061004 A1

L7: Entry 3 of 6

File: PGPB

Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030061004

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030061004 A1

TITLE: System and method for dynamic multi-objective optimization of machine selection, integration and utilization

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Discenzo, Frederick M.	Brecksville	OH	US

US-CL-CURRENT: 702/182

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#)

4. Document ID: US 7050873 B1

L7: Entry 4 of 6

File: USPT

May 23, 2006

US-PAT-NO: 7050873

DOCUMENT-IDENTIFIER: US 7050873 B1

TITLE: System and method for dynamic multi-objective optimization of machine selection, integration and utilization

DATE-ISSUED: May 23, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Discenzo, Frederick M	Brecksville	OH		US

US-CL-CURRENT: 700/99; 700/28, 705/8

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWMC](#) | [Drawn D](#)

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 5. Document ID: US 6847854 B2

L7: Entry 5 of 6

File: USPT

Jan 25, 2005

US-PAT-NO: 6847854

DOCUMENT-IDENTIFIER: US 6847854 B2

TITLE: System and method for dynamic multi-objective optimization of machine selection, integration and utilization

DATE-ISSUED: January 25, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Discenzo; Frederick M.	Brecksville	OH		

US-CL-CURRENT: 700/99; 700/28, 700/36, 700/90, 705/8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sentences	Attachments	Claims	KOMC	Drawn De
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 6. Document ID: US 6789054 B1